

IN THE CLAIMS

Please replace the claims with the following listing:

Claim 1 (currently amended): A card for transmitting data over at least one optical fiber, the card comprising:

a transmitter having at least one light source and a phase modulator for phase modulating light from the source so as to create phase-modulated optical signals in the light as a function of an input electronic data stream; and

a receiver having an interferometer for reading received optical signals, the interferometer having a delay loop fiber; and  
a securing device for securing the delay loop fiber.

Claim 2 (original): The card as recited in claim 1 wherein the at least one light is a laser.

as  
Claim 3 (original): The card as recited in claim 1 further including an energy level detector.

Claim 4 (canceled).

Claim 5 (currently amended): The card as recited in claim 1 ~~claim 5~~ wherein the ~~the~~ delay loop fiber ~~has a securing device~~ secures ~~for securing~~ the delay loop fiber to the card.

Claim 6 (original): The card as recited in claim 1 further including a circuit having a delayed feedback exclusive-or gate.

Claim 7 (original): The card as recited in claim 1 wherein the interferometer includes a splitter and a coupler.

Claim 8 (currently amended): The card as recited in claim 1 wherein the card includes a backplane made from a printed circuit board.

Claim 9 (currently amended): A card for transmitting data over at least one optical fiber, the card comprising:

a transmitter having at least one light source and a phase modulator for phase modulating light from the source so as to create phase-modulated optical signals in the light as a function of an input electronic data stream; and

a receiver having an interferometer for reading received optical signals; and ~~The card as recited in claim 1 wherein the card includes a faceplate having a fiber tap signal device for~~ indicating a fiber tap.

Claim 10 (original): The card as recited in claim 1 wherein the card is a replacement part for an existing optical multiplexor.

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cont  
Claims 11 to 14 (canceled).

Claim 15 (new): The card as recited in claim 1 further comprising a switch for switching between an amplitude-modulated mode and a phase-modulated mode.

Claim 16 (new): The card as recited in claim 5 further comprising a switch for switching between an amplitude-modulated mode and a phase-modulated mode.

Claim 17 (new): A card for transmitting data over at least one optical fiber, the card comprising:  
a transmitter having at least one laser and a single phase modulator for phase modulating all of the light from the laser so as to create phase-modulated optical signals in the light as a function of an input electronic data stream; and

a receiver having an interferometer for reading received optical signals.

Claim 18 (new): The card as recited in claim 17 further comprising a securing device for securing the delay loop fiber to the card.

Claim 19 (new): The card as recited in claim 17 further comprising a switch for switching between an amplitude-modulated mode and a phase-modulated mode.

Claim 20 (new): The card as recited in claim 17 wherein the at least one light is a laser.

Claim 21 (new): The card as recited in claim 17 further including an energy level detector.

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concl.  
Claim 22 (new): The card as recited in claim 17 wherein the interferometer includes a delay loop fiber.

Claim 23 (new): The card as recited in claim 17 wherein the card includes a faceplate having a fiber tap signal device.

Claim 24 (new): A card for transmitting data over at least one optical fiber, the card comprising:  
a transmitter having at least one laser and a phase modulator for phase modulating light from the laser so as to create phase-modulated optical signals in the light as a function of an input electronic data stream, the input electronic data stream having a plurality of bits, each bit representing a binary zero or a binary one, for each bit the phase modulator imparting on the light for each binary zero either a first phase corresponding to the binary zero or a second phase offset 180 degrees from the first phase corresponding to a binary one so as to create the phase-modulated optical signals; and

a receiver having an interferometer for reading received optical signals.